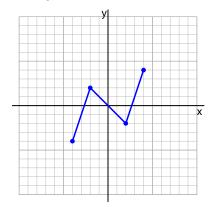
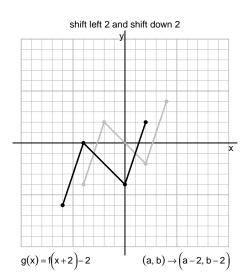
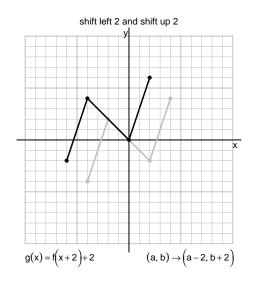
Reference: shifting and stretching, all constants equal 2!

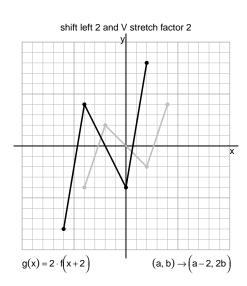
We will use the following function as an example to examine all 16 possible combinations of translations and scaling, with one horizontal transformation and one vertical transformation:

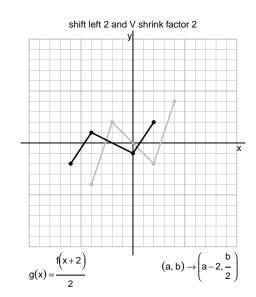


$$y = f(x)$$

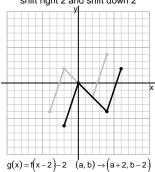




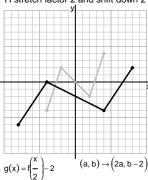




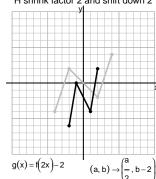




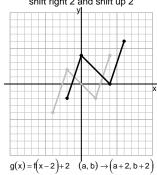
H stretch factor 2 and shift down 2



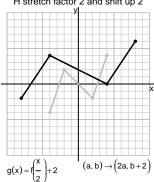
H shrink factor 2 and shift down 2



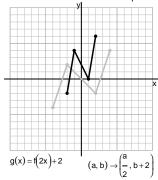
shift right 2 and shift up 2



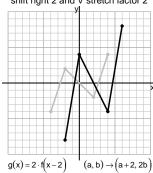
H stretch factor 2 and shift up 2



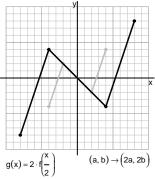
H shrink factor 2 and shift up 2



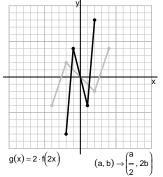
shift right 2 and V stretch factor 2

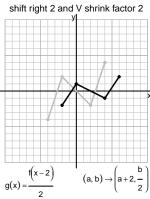


H stretch factor 2 and V stretch factor 2



H shrink factor 2 and V stretch factor 2





H stretch factor 2 and V shrink factor 2

